

**S.Y.B.PHARM. SEMESTER-III (2011 COURSE) : WINTER -  
2017**

**SUBJECT: PHARMACEUTICAL BIOCHEMISTRY-II**

Day: **Friday**  
Date: **10/11/2017**

**W-2017-3819**

Time **02.00 PM TO 05.00 PM**  
Max Marks: **80**

**N.B:**

- 1) Question No 1 and 5 are **COMPULSORY**.
- 2) Out of remaining questions attempt **ANY TWO** questions from each section.
- 3) Figures to the right indicate **FULL** marks.
- 4) Answers to both the sections should be written in **SEPERTAE** answer book.

**SECTION-I**

- Q.1** Answer **ANY FIVE** of the following: **(10)**
- a) What is substrate level phosphorylation?
  - b) What is obstructive jaundice?
  - c) Give biosynthesis of histamine.
  - d) What is renal acidosis?
  - e) What are replicating origins?
  - f) State catabolism of glycine.
- Q.2** a) What is replication? Explain in detail. **(10)**  
b) What is DNA recombination? **(05)**
- Q.3** a) What is gluconeogenesis? Give its physiological importance. **(10)**  
b) How the sugar ribose, heptose and erythrose are made available for glycolysis. **(05)**
- Q.4** Write short notes on **ANY THREE** of the following: **(15)**
- a) Glycogen biosynthesis
  - b) Liver function test (LFT)
  - c) Primer selection in PCR
  - d) Oxidative phosphorylation

**SECTION-II**

- Q.5** Answer **ANY FIVE** of the following: **(10)**
- a) What is albumin to globulin ratio?
  - b) What is hyperglycemia?
  - c) What is antibody enzyme conjugate?
  - d) What is immuno precipitation?
  - e) What are initiating codons?
  - f) State biochemical role of biotin.
- Q.6** a) What is ELISA? Explain the process of ELISA in detail. **(10)**  
b) What is translation? Give properties of genetic codes. **(05)**
- Q.7** a) What are lipoproteins? Give their physiological importance. **(10)**  
b) How blood pH is regulated? **(05)**
- Q.8** Write short notes on **ANY THREE** of the following: **(15)**
- a) Renal reabsorption
  - b) Regulation of blood glucose level
  - c) Biochemical role of Vitamin -B6
  - d) Deficiency of essential amino acids

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